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Claims:

- 1. An apparatus comprising:
- a dielectric layer;
- an adhesion layer comprising silicon overlying the dielectric layer; and a phase-change material overlying the adhesion layer.
- 2. The apparatus of claim 1, wherein the adhesion layer is in on the dielectric layer.
- 3. The apparatus of claim 1, wherein the phase-change material is on the adhesion layer.
- 4. The apparatus of claim 1, wherein the adhesion layer consists essentially of silicon.
- 5. The apparatus of claim 1, wherein the adhesion layer comprises at least forty percent silicon atoms by weight.
- 6. The apparatus of claim 1, wherein the adhesion layer compriseshemispheric grain polysilicon.
 - 7. The apparatus of claim 1, wherein the adhesion layer comprises three

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dimensional grains.

8. An apparatus comprising:

a dielectric layer having a surface that lies substantially within a plane, the dielectric layer having a surface area define by a square in the plane;

an interfacial layer overlying the dielectric layer, wherein the interfacial layer has a surface having a surface area over the square greater than the surface area of the dielectric layer; and

a chalcogenide layer overlying the interfacial layer.

- 9. The apparatus of claim 8, wherein the interfacial layer comprises silicon.
- 10. The apparatus of claim 8, wherein the chalcogenide material is on the interfacial layer.
 - 11. An apparatus comprising:

an adhesion layer having a rough surface; and

a phase-change material on the first layer.

- 12. The apparatus of claim 11, wherein the first layer comprises silicon
- 13. The apparatus of claim 12, wherein the first layer comprises hemispherical grain polysilicon.

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- 14. The apparatus of claim 11, wherein the adhesion layer has a surface comprising bumps having an average height of at least 30 Angstroms.
- 15. The apparatus of claim 11, further comprising a dielectric layer, wherein5 the adhesion layer is on the dielectric layer.
 - 16. The apparatus of claim 15, wherein the dielectric layer comprises silicon dioxide or silicon nitride.
 - 17. The apparatus of claim 11, wherein the phase-change material comprises a chalcogenide alloys
 - 18. The apparatus of claim 17, wherein the phase-change material comprises GeSbTe alloys.
 - 19. A method comprising:

forming an interfacial layer having three dimensional grains; and forming a phase-change material over said interfacial layer.

- 20. The method of claim 19, wherein forming an interfacial layer includes forming an interfacial layer over an insulator.
 - 21. The method of claim 19, wherein forming the interfacial layer includes $\rm EL414998344US$ $\rm KMS/mwb$

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forming a layer having hemispheric grains.

- 22. The method of claim 19 wherein forming an interfacial layer includes forming a layer comprising silicon.
- 23. The method of claim 19 further including forming the interfacial layer over a layer of dielectric material.
- 24. The method of claim 23 further including forming an opening through said interfacial layer and insulator.
- 25. The method of claim 24 further including forming the phase-change material over the interfacial layer and in the opening.